Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541887

OU4-SS-02-COMP2(1-6) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:20
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

02216 SDG#: DPU03-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0856 J	0.110	mg/kg	1
01643	Aluminum	7429-90-5	13,900.	22.0	mg/kg	1
01650	Calcium	7440-70-2	4,490. J	33.0	mg/kg	1
01654	Iron	7439-89-6	20,100. J	22.0	mg/kg	1
01657	Magnesium	7439-95-4	3,430.	27.5	mg/kg	1
01662	Potassium	7440-09-7	1,930. J	54.9	mg/kg	1
01667	Sodium	7440-23-5	174. J	110.	mg/kg	1
06925	Thallium	7440-28-0	1.46	1.10	mg/kg	1
06935	Arsenic	7440-38-2	9.41	1.10	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.10	mg/kg	1
06944	Antimony	7440-36-0	N.D.	6.59	mg/kg	1
06946	Barium	7440-39-3	602. J	11.0	mg/kg	1
06947	Beryllium	7440-41-7	0.699	0.330	mg/kg	1
06949	Cadmium	7440-43-9	12.5 J	2.20	mg/kg	1
06951	Chromium	7440-47-3	21.6	4.40	mg/kg	1
06952	Cobalt	7440-48-4	8.17	5.49	mg/kg	1
06953	Copper	7440-50-8	27.4 J	4.40	mg/kg	1
06955	Lead	7439-92-1	101.	11.0	mg/kg	1
06958	Manganese	7439-96-5	667.	2.20	mg/kg	1
06961	Nickel	7440-02-0	16.9	5.49	mg/kg	1
06966	Silver	7440-22-4	0.552 J	2.20	mg/kg	1
06971	Vanadium	7440-62-2	36.3	2.20	mg/kg	1
06972	Zinc	7440-66-6	779.	11.0	mg/kg	1
00111	Moisture Code 086	n.a.	9.0	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.3	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541888

OU4-SS-02-COMP2(6-12) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

02261 SDG#: DPU03-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	9.70	1.09	mg/kg	1
00111	Moisture Code 086	n.a.	8.4	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.4	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 07:41	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

0016

MEMBER ACIL
Lancaster Laboratories, Inc.
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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541889

OU4-SS-02-COMP2(12-18) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

Blasland, Bouck & Lee
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Syracuse NY 13214-0066

02212 SDG#: DPU03-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	10.1	1.13	mg/kg	1
00111	Moisture Code 086	n.a.	11.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.2	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 07:46	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541890

OU4-SS-02-COMP3(0-1) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

02301 SDG#: DPU03-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	6.93	1.13	mg/kg	1
00111	Moisture Code 086	n.a.	11.7	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.6	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 07:50	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541891

OU4-SS-02-COMP3(1-6) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

Blasland, Bouck & Lee
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Syracuse NY 13214-0066

02316 SDG#: DPU03-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	12.0	1.09	mg/kg	1
00111	Moisture Code 086	n.a.	8.3	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.0	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 07:55	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

0819

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541892

OU4-SS-02-COMP3(6-12) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

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Syracuse NY 13214-0066

02361 SDG#: DPU03-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	9.45	1.11	mg/kg	1
00111	Moisture Code 086	n.a.	10.3	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.7	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 08:00	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

~~8825~~

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541893

OU4-SS-02-COMP4(1-6) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

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02416 SDG#: DPU03-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	11.9	1.14	mg/kg	1
00111	Moisture Code 086	n.a.	11.9	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.1	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 08:14	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541894

OU4-SS-02-COMP4(6-12) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

Blasland, Bouck & Lee
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Syracuse NY 13214-0066

02461 SDG#: DPU03-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	10.4	1.14	mg/kg	1
00111	Moisture Code 086	n.a.	12.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.6	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 08:19	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

8822

MEMBER ACIL
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541895

OU4-SS-02-COMP5(0-1) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

Blasland, Bouck & Lee
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O2501 SDG#: DPU03-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	13.5	1.16	mg/kg	1
00111	Moisture Code 086	n.a.	13.7	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.7	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 08:23	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

6823

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541896

OU4-SS-02-COMP5(1-6) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

Blasland, Bouck & Lee
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Syracuse NY 13214-0066

02516 SDG#: DPU03-13

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.137	0.114	mg/kg	1
01643	Aluminum	7429-90-5	10,800.	22.8	mg/kg	1
01650	Calcium	7440-70-2	5,360. J	34.2	mg/kg	1
01654	Iron	7439-89-6	20,700. J	22.8	mg/kg	1
01657	Magnesium	7439-95-4	3,400.	28.5	mg/kg	1
01662	Potassium	7440-09-7	1,600. J	56.9	mg/kg	1
01667	Sodium	7440-23-5	170. J	114.	mg/kg	1
06925	Thallium	7440-28-0	2.19	1.14	mg/kg	1
06935	Arsenic	7440-38-2	14.1	1.14	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.14	mg/kg	1
06944	Antimony	7440-36-0	N.D.	6.83	mg/kg	1
06946	Barium	7440-39-3	2,370. J	11.4	mg/kg	5
06947	Beryllium	7440-41-7	0.853	0.342	mg/kg	1
06949	Cadmium	7440-43-9	26.0 J	2.28	mg/kg	1
06951	Chromium	7440-47-3	21.7	4.56	mg/kg	1
06952	Cobalt	7440-48-4	6.20	5.69	mg/kg	1
06953	Copper	7440-50-8	40.2 J	4.56	mg/kg	1
06955	Lead	7439-92-1	405.	11.4	mg/kg	1
06958	Manganese	7439-96-5	598.	2.28	mg/kg	1
06961	Nickel	7440-02-0	18.3	5.69	mg/kg	1
06966	Silver	7440-22-4	0.769 J	2.28	mg/kg	1
06971	Vanadium	7440-62-2	30.6	2.28	mg/kg	1
06972	Zinc	7440-66-6	1,970.	11.4	mg/kg	1
00111	Moisture Code 086	n.a.	12.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.7	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

MEMBER ACIL
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Lancaster, PA 17605-2425
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541897

OU4-SS-02-COMP5(6-12) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:21
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

02561 SDG#: DPU03-14*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	9.02	1.18	mg/kg	1
00111	Moisture Code 086	n.a.	15.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.6	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/14/2005 08:33	Joanne M Gates	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:48	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/13/2005 20:00	Annamaria Stipkovits	1

8826.

MEMBER ACIL
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2425 New Holland Pike
PO Box 12425
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Chain of Custody

BBL
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

6723 Towpath Rd
Syracuse, NY 13214-0066
(315) 446-9120

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

acct# 11594 Group# 947015 Sample# 4541884-97

PROJ. NO.	PROJECT NAME	COC Number
85534	RAL DePue Site	4

SAMPLERS: (Signature)

SAMPLE ID	DATE	TIME	MATRIX	COMP.	GRAB	# Containers	Requested Analyses 1	2	3	4	5	6	7	HOLD	Remarks
OU4-SS-02-COMP1(0-1)	6/1/2005	0:00	SO			1	X	X							ARSENIC ONLY 6/2
OU4-SS-02-COMP1(1-6)	6/1/2005	0:00	SO			1	X	X							↓
OU4-SS-02-COMP1(6-12)	6/1/2005	0:00	SO			1	X	X							↓
OU4-SS-02-COMP2(1-6)	6/1/2005	0:00	SO			1	X	X							↓
OU4-SS-02-COMP2(6-12)	6/1/2005	0:00	SO			1	X	X							↓
OU4-SS-02-COMP2(12-18)	6/1/2005	0:00	SO			1	X	X							6/3.
OU4-SS-02-COMP3(0-1)	6/1/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-02-COMP3(1-6)	6/1/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-02-COMP3(6-12)	6/1/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-02-COMP4(1-6)	6/1/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-02-COMP4(6-12)	6/1/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-02-COMP5(0-1)	6/1/2005	0:00	SO			1	X	X							ARSENIC ONLY
															ARSENIC ONLY ↓

Requested Analyses

1. Metals
2. pH
3.
4.
5.
6.
7.

Special Instructions/ Comments:

☒ Special QA/QC Instructions

Laboratory Information and Receipt

Lab Name: Lancaster Laboratories

Shipping Tracking #

Specify Turnaround Requirements:

☒ Cooler packed with ice

☒ Cooler custody seal intact

Sample Receipt: intact

Condition/Cooler Temp: over 10.5

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
	6-8-05	1500					
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
					6-12-05	0855	Kathy Burkley

BBL
BLASLAND, BOUCK & LEE, INC.
engineers, scientists, economists

6723 Towpath Rd
Syracuse, NY 13214-0066
(315) 446-9120

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

acct#11594 Group#947015 Sample#4541884-97

PROJ. NO.	PROJECT NAME	COC Number
85534	RAL DePue Site	4

SAMPLERS: (Signature)

SAMPLE ID	DATE	TIME	MATRIX	COMP.	GRAB	# Containers	Requested Analyses 1	2	3	4	5	6	7	HOLD	Remarks
OU4-SS-02-COMP5(1-6)	6/1/2005	0:00	SO			1	X	X							6 3
OU4-SS-02-COMP5(6-12)	6/1/2005	0:00	SO			1	X	X							ARSENIC ONLY ↓

Requested Analyses
1. Metals
2. pH
3.
4.
5.
6.
7.

Special Instructions/ Comments:

☒ Special QA/QC Instructions

Laboratory Information and Receipt

Lab Name: Lancaster Laboratories

Shipping Tracking #

Specify Turnaround Requirements:

☒ Cooler packed with ice

☒ Cooler custody seal intact

Sample Receipt: intact

Condition/Cooler Temp: over 10-5°

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
	6.2.05	1530					
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
					6-3-05	0855	Kathy Binkley

DATA REVIEW FOR

DEPUE REMOVAL ACTION LIMIT (RAL) ASSESSMENT
DEPUE, ILLINOIS

SDG# DPU04

METALS ANALYSES

Analyses performed by:

Lancaster Laboratories, Inc.
Lancaster, Pennsylvania

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York
Summary

The following is an assessment of the data package for SDG# DPU04 for sampling from the RAL DePue Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis					
				VOA	SVOC	PCB	MET	PEST	MISC
OU4-SS-03-COMP1(0-1)	4541898	Soil	6/6/2005				X		
OU4-SS-03-COMP1(1-6)	4541899	Soil	6/6/2005				X		
OU4-SS-03-COMP1(6-12)	4541900	Soil	6/6/2005				X		
OU4-SS-03-COMP2(0-1)	4541901	Soil	6/6/2005				X		
OU4-SS-03-COMP2(1-6)	4541902	Soil	6/6/2005				X		
OU4-SS-03-COMP2(6-12)	4541903	Soil	6/6/2005				X		
OU4-SS-03-COMP2(12-18)	4541904	Soil	6/6/2005				X		
OU4-SS-03-COMP3(0-1)	4541905	Soil	6/6/2005				X		
OU4-SS-03-COMP3(1-6)	4541906	Soil	6/6/2005				X		
OU4-SS-03-COMP3(6-12)	4541907	Soil	6/6/2005				X		
OU4-SS-03-COMP3(12-18)	4541908	Soil	6/6/2005				X		
OU4-SS-03-COMP4(0-1)	4541909	Soil	6/6/2005				X		
OU4-SS-03-COMP4(12-18)	4541910	Soil	6/6/2005				X		

METALS ANALYSES

Introduction

Analyses were performed according to USEPA 6000/7000. Data were reviewed in accordance with USEPA National Functional Guidelines of February 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

E The reported value is estimated due to the presence of interference.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

Validation qualifiers:

J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for metals analyses is 180 days and for mercury is 28 days from sample receipt. Samples are required to be preserved at 4°C.

All samples were analyzed within the specified holding times.

Note: Sample temperatures were greater than the required preservation temperature of 4°C.

2. Blank Contamination

Quality assurance blanks, i.e., method or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

Several analytes were detected above the method detection limit in the method blank and/or the calibration blank. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified.

Sodium was detected above the method detection limit in the associated rinse blank (RB060605-1) collected on 6/6/05 and found in SDG#DPU05. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified.

Several analytes were detected above the method detection limit in the associated rinse blank (RB060605-2) collected on 6/6/05 and found in SDG#DPU05. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All required analytes evaluated by the guidelines exhibited CDRL recoveries within the control limit with the exception of silver. The CRDL standard of this analyte exhibited recoveries greater than the control limit. All associated sample locations were qualified as estimated.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/ Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 MS/MSD

The MS/MSD recoveries of zinc exhibited recoveries greater than control limits. All associated sample results for zinc were qualified as estimated.

The MS/MSD recoveries of antimony and cadmium exhibited recoveries less than control limits. All associated sample results for antimony and cadmium were qualified as estimated.

4.2 Laboratory Duplicate

The laboratory duplicate results of vanadium were greater than control limits. All associated sample results for vanadium were qualified as estimated.

5. Field Duplicate

No field duplicates were performed within this SDG.

6. Laboratory Control Sample (LCS)

LCS recoveries were within control limits.

7. Serial Dilution

Serial dilutions were within control limits.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the MSA.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES		NO		NA
Data Completeness and Deliverables					
Is there a narrative or cover letter present?	X				
Are the sample numbers included in the narrative?	X				
Are the sample chain-of-custodies present?	X				
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	X				
Is the package paginated?	X				
Are the forms and copies legible?	X				

Form I to IX					
Are all the Form I through Form IX labeled with:					
Laboratory name?	X				
Sample No.?	X				
SDG No.?	X				
Correct units?	X				
Matrix?	X				

Raw Data					
Is the digestion log for flame AA/ICP present?	X				
Is the digestion log for furnace AA present?					X
Is the distillation log for mercury present?					X
Is the distillation log for cyanides present?					X
Are pH values listed?					
pH for metals analyses <2 (waters)?					X
pH for cyanide analyses >12 (waters)?					X
Percent solids calculation present for soils/sediments?	X				
Are preparation dates present on sample preparation logs/bench sheets?	X				
Are the measurement read out records present for:					
ICP	X				
Flame AA					X
Furnace AA					X
Mercury	X				
Cyanides					X
Is the data legible?	X				
Is the data properly labeled?	X				
Holding Times					
Were mercury analyses performed within 28 days?	X				

Inorganic Data Validation Checklist

	YES		NO		NA
Were cyanide distillations performed within 14 days?					X
Were other metal analysis performed within 6 months?	X				

Form I (Final Data)					
Are all forms complete?	X				
Are correct units indicated on Form I's?	X				
Are soil sample results for each parameter corrected for percent solids?	X				
Are all "less than IDL" values properly coded with "U"?	X				
Are the correct concentration qualifiers on Form 1's?	X				
Is a physical description of samples given on Form I's?	X				

Calibration					
Is a record of at least 2 point calibration present for ICP analysis?	X				
Is a record of 5 point calibration present for Hg analysis?	X				
Is a record of 4 point calibration present for:					
Flame AA?					X
Furnace AA?					X
Cyanides?					X
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?					X
Is correlation coefficient less than .995 for:					
Mercury Analysis?			X		
Cyanide Analysis?					X
Atomic Absorption Analysis?					X

Form II A (Initial and Continuing Calibration Verification)					
Present and complete for all analytes?	X				
Are all calibration standards (initial and continuing) within control limits for:					
Metals (90-110%)?	X				
Hg (80-120%)?	X				
Cyanides (85-115%)?					X
Was continuing calibration performed every 10 samples or every 2 hours?	X				
Was the ICV for cyanides distilled?					X

Form II B (CRDL Standards for AA and ICP)					
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	X				
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?					X
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?					

Inorganic Data Validation Checklist

	YES		NO		NA
	X				X
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	X				X
Are CRA and CRI standards within control limits for metals (70-130%)?			X		
Is mid-range standard within control limits for cyanide (80-120%)					X

Form III (Initial and Continuing Calibration Blanks)					
Present and complete?	X				
Was an initial calibration blank analyzed?	X				
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X				
Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?			X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?	X				

Form III (Preparation Blank)					
Was one prep. blank analyzed for:					
each Sample Delivery Group SDG)?	X				
each batch of digested samples?	X				
each matrix type?	X				
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?	X				
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X				
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X		
Is concentration of prep. blank below the negative CRDL?			X		

Form IV (ICP Interference Check Sample)					
Present and complete?	X				
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X				
Are all ICS results inside the control limits (±20%)?	X				
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?					X

Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation					
Present and complete for:					
each SDG?	X				
each matrix type?	X				
Was field blank used for spiked sample?			X		
Are all recoveries for analytes with sample concentrations less than four times the spike			X		

Inorganic Data Validation Checklist

	YES		NO		NA
concentration within control limits (75-125)?					
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?					X
Aqueous					
Are any spike recoveries:					
less than 30%?					X
between 30-74%?					X
between 126-150%?					X
greater then 150%?					X
Soil/Sediment					
Are any spike recoveries:					
less than 10%?			X		
between 10-74%?	X				
between 126-200%?	X				
greater than 200%?			X		
Form VI (Lab Duplicates)					
Present and complete for:					
each SDG?	X				
each matrix type?	X				
Was field blank used for duplicate analysis?			X		
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?			X		
If no, are all results outside the control limits flagged with an * on Form I's and VI?	X				
Aqueous					
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?					X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?					X
Soil/Sediment					
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) >35 %?			X		
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?			X		

Field Duplicates					
Were field duplicates analyzed?			X		
Aqueous					
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?					X
					X

Inorganic Data Validation Checklist

	YES		NO		NA
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?					
Soil/Sediment					
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?					X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?					X

Form VII (Laboratory Control Sample)					
Was one LCS prepared and analyzed for:					
each SDG?	X				
each batch samples digested/distilled?	X				
Aqueous LCS					
Is any LCS recovery:					X
less than 50%?					X
between 50% and 79%?					X
between 121% and 150%?					X
greater than 150%?					X
Solid LCS					
Is LCS "Found" value higher than the control limits?			X		
Is LCS "Found" lower than the control limits?			X		

Form IX (ICP Serial Dilution)					
Was Serial Dilution analysis performed for:					
each SDG?	X				
each matrix type?	X				
Was field blank(s) used for Serial Dilution Analysis?			X		
Are results outside control limits flagged with an "E"" on Form I's and Form IX when the initial concentration on Form IX is equal to 50 times IDL or greater.			X		
Are any required % difference values:					
> 10%?	X				
≥100%?			X		

Furnace Atomic Absorption (AA) QC Analysis					
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?					X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?					X
Were dilutions analyzed for samples with analytical spike recovery less than 40%?					X

Inorganic Data Validation Checklist

	YES		NO		NA
Is analytical spike recovery outside the control limits (85-115%) for any sample?					X

Form VIII (Method of Standard Addition Results)					
Present?					X
If no, is any Form I result coded with "S" or "+"?					X
Was MSA required for any sample but not performed?					X
Is the coefficient of correlation for MSA less than 0.995 for any sample?					X
Is the coefficient of correlation for MSA less than 0.990 for any sample?					X
Was proper quantitation procedure followed?					X

Dissolved/Total for Inorganic/Total Analytes					
Were any analyses performed for dissolved as well as total analytes on the same sample.					X
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)					X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?					X
Field Blank					
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?					X
If no, was field blank value already rejected due to other QC criteria?					X

Form X, XI, XII (Verification of Instrumental Parameters)					
Is verification report present for :					
Instrument Detection Limits (quarterly)?	X				
ICP Interelement Correlation Factors (annually)?	X				
ICP Linear Ranges (quarterly)?	X				
Is IDL greater than CRDL for any analyte?			X		
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.					X
Was any sample result higher than the linear range of ICP.			X		
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X		
If yes for any of the above, was the sample diluted to obtain the result on Form I?					X

Percent Solids					
Are the percent solids in soil/sediment(s):					
< 50%?			X		
< 10%?			X		

Corrected Sample Analysis Data Sheets

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541898

OU4-SS-03-COMP1(0-1) Soil Sample

RAL DePue Site
Collected:06/06/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03101 SDG#: DPU04-01

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.208		0.110	mg/kg	1
01643	Aluminum	7429-90-5	11,600.		22.0	mg/kg	1
01650	Calcium	7440-70-2	9,510.		33.0	mg/kg	1
01654	Iron	7439-89-6	28,500.		22.0	mg/kg	1
01657	Magnesium	7439-95-4	3,140.		27.5	mg/kg	1
01662	Potassium	7440-09-7	1,940.		55.0	mg/kg	1
01667	Sodium	7440-23-5	175.		110.	mg/kg	1
06925	Thallium	7440-28-0	2.55		1.10	mg/kg	1
06935	Arsenic	7440-38-2	18.2		1.10	mg/kg	1
06936	Selenium	7782-49-2	2.68		1.10	mg/kg	1
06944	Antimony	7440-36-0	N.D.		6.60	mg/kg	1
06946	Barium	7440-39-3	6,200.		11.0	mg/kg	10
06947	Beryllium	7440-41-7	0.823		0.330	mg/kg	1
06949	Cadmium	7440-43-9	109.		2.20	mg/kg	1
06951	Chromium	7440-47-3	21.3		4.40	mg/kg	1
06952	Cobalt	7440-48-4	9.71		5.50	mg/kg	1
06953	Copper	7440-50-8	97.1		4.40	mg/kg	1
06955	Lead	7439-92-1	584.		11.0	mg/kg	1
06958	Manganese	7439-96-5	832.		2.20	mg/kg	1
06961	Nickel	7440-02-0	18.9		5.50	mg/kg	1
06966	Silver	7440-22-4	2.06	J	2.20	mg/kg	1
06971	Vanadium	7440-62-2	31.2		2.20	mg/kg	1
06972	Zinc	7440-66-6	5,850.		11.0	mg/kg	10
00111	Moisture Code 086	n.a.	9.1		0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

00394	pH Code 067	n.a.	6.2		0.010	Std. Units	1

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541899

OU4-SS-03-COMP1(1-6) Soil Sample

RAL DePue Site
Collected:06/06/2005

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Account Number: 11594

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03116 SDG#: DPU04-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	19.8	1.08	mg/kg	1
06949	Cadmium	7440-43-9	49.7 J	2.16	mg/kg	1
00111	Moisture Code 086	n.a.	7.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.2	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 16:02	Donna R Sackett	1
06949	Cadmium	SW-846 6010B	1	06/15/2005 16:02	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	(modified) SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

MEMBER ACIL

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541900

OU4-SS-03-COMP1(6-12) Soil Sample

RAL DePue Site
Collected:06/06/2005

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Account Number: 11594

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03161 SDG#: DPU04-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	11.1	1.07	mg/kg	1
00111	Moisture Code 086	n.a.	6.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.0	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 16:07	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

MEMBER ACIL

Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541901

OU4-SS-03-COMP2(0-1) Soil Sample

RAL DePue Site
Collected:06/06/2005

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Account Number: 11594

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03201 SDG#: DPU04-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	12.8	1.05	mg/kg	1
00111	Moisture Code 086	n.a.	4.4	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.6	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 16:11	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541902

OU4-SS-03-COMP2(1-6) Soil Sample

RAL DePue Site
Collected:06/06/2005

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Account Number: 11594

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03216 SDG#: DPU04-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	17.8	1.06	mg/kg	1
00111	Moisture Code 086	n.a.	6.0	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.9	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 16:16	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541903

OU4-SS-03-COMP2(6-12) Soil Sample

RAL DePue Site
Collected:06/06/2005

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Account Number: 11594

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03261 SDG#: DPU04-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	16.2	1.10	mg/kg	1
00111	Moisture Code 086	n.a.	9.4	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.3	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 16:21	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

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2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541904

OU4-SS-03-COMP2(12-18) Soil Sample

RAL DePue Site
Collected:06/06/2005

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Account Number: 11594

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03212 SDG#: DPU04-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	12.5	1.13	mg/kg	1
00111	Moisture Code 086	n.a.	11.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.7	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 16:35	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C	1	06/14/2005 02:35	Daniel S Smith	1
05708	SW SW846 ICP Digest	(modified) SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541905

OU4-SS-03-COMP3(0-1) Soil Sample

RAL DePue Site
Collected:06/06/2005

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Account Number: 11594

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03301 SDG#: DPU04-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	15.4	3.68	mg/kg	5
	The quantitation limit for arsenic was increased due to high iron saturation in the sample.					
00111	Moisture Code 086	n.a.	9.0	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.0	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	2	06/17/2005 01:09	John P Hook	5
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C	1	06/14/2005 03:25	Daniel S Smith	1
05708	SW SW846 ICP Digest	(modified) SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541906

OU4-SS-03-COMP3(1-6) Soil Sample

RAL DePue Site
Collected:06/06/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Blasland, Bouck & Lee
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03316 SDG#: DPU04-09

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.146		0.109	mg/kg	1
01643	Aluminum	7429-90-5	9,330.		21.8	mg/kg	1
01650	Calcium	7440-70-2	21,800.		32.8	mg/kg	1
01654	Iron	7439-89-6	28,600.		21.8	mg/kg	1
01657	Magnesium	7439-95-4	10,100.		27.3	mg/kg	1
01662	Potassium	7440-09-7	1,580.		54.6	mg/kg	1
01667	Sodium	7440-23-5	187.		109.	mg/kg	1
06925	Thallium	7440-28-0	1.98		1.09	mg/kg	1
06935	Arsenic	7440-38-2	19.7		1.09	mg/kg	1
06936	Selenium	7782-49-2	1.83		1.09	mg/kg	1
06944	Antimony	7440-36-0	1.12	J	6.55	mg/kg	1
06946	Barium	7440-39-3	1,850.		10.9	mg/kg	5
06947	Beryllium	7440-41-7	0.947		0.328	mg/kg	1
06949	Cadmium	7440-43-9	41.6		2.18	mg/kg	1
06951	Chromium	7440-47-3	18.7		4.37	mg/kg	1
06952	Cobalt	7440-48-4	10.2		5.46	mg/kg	1
06953	Copper	7440-50-8	99.9		4.37	mg/kg	1
06955	Lead	7439-92-1	519.		10.9	mg/kg	1
06958	Manganese	7439-96-5	939.		2.18	mg/kg	1
06961	Nickel	7440-02-0	18.4		5.46	mg/kg	1
06966	Silver	7440-22-4	1.36	J	2.18	mg/kg	1
06971	Vanadium	7440-62-2	26.8		2.18	mg/kg	1
06972	Zinc	7440-66-6	4,050.		10.9	mg/kg	5
00111	Moisture Code 086	n.a.	8.4		0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

00394	pH Code 067	n.a.	6.0		0.010	Std. Units	1

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541907

OU4-SS-03-COMP3(6-12) Soil Sample

RAL DePue Site
Collected:06/06/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

03361 SDG#: DPU04-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	23.5	1.13	mg/kg	1
00111	Moisture Code 086	n.a.	11.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.5	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 16:49	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 03:25	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541908

OU4-SS-03-COMP3(12-18) Soil Sample

RAL DePue Site
Collected:06/06/2005

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Account Number: 11594

Blasland, Bouck & Lee
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03312 SDG#: DPU04-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	20.5	1.13	mg/kg	1
00111	Moisture Code 086	n.a.	11.5	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.2	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 16:54	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C	1	06/14/2005 03:25	Daniel S Smith	1
05708	SW SW846 ICP Digest	(modified) SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

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2425 New Holland Pike
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Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541909

OU4-SS-03-COMP4(0-1) Soil Sample

RAL DePue Site
Collected:06/06/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Blasland, Bouck & Lee
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Syracuse NY 13214-0066

03401 SDG#: DPU04-12

CAT No.	Analysis Name	CAS Number	Dry Result		Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.259		0.114	mg/kg	1
01643	Aluminum	7429-90-5	7,930.		22.7	mg/kg	1
01650	Calcium	7440-70-2	7,610.		34.1	mg/kg	1
01654	Iron	7439-89-6	22,100.		22.7	mg/kg	1
01657	Magnesium	7439-95-4	3,030.		28.4	mg/kg	1
01662	Potassium	7440-09-7	1,160.		56.8	mg/kg	1
01667	Sodium	7440-23-5	122.		114.	mg/kg	1
06925	Thallium	7440-28-0	1.78		1.14	mg/kg	1
06935	Arsenic	7440-38-2	12.1		1.14	mg/kg	1
06936	Selenium	7782-49-2	1.58		1.14	mg/kg	1
06944	Antimony	7440-36-0	1.27	J	6.82	mg/kg	1
06946	Barium	7440-39-3	1,390.		11.4	mg/kg	5
06947	Beryllium	7440-41-7	0.726		0.341	mg/kg	1
06949	Cadmium	7440-43-9	30.0	J	2.27	mg/kg	1
06951	Chromium	7440-47-3	23.7		4.55	mg/kg	1
06952	Cobalt	7440-48-4	7.83		5.68	mg/kg	1
06953	Copper	7440-50-8	57.9		4.55	mg/kg	1
06955	Lead	7439-92-1	769.		11.4	mg/kg	1
06958	Manganese	7439-96-5	671.		2.27	mg/kg	1
06961	Nickel	7440-02-0	17.3		5.68	mg/kg	1
06966	Silver	7440-22-4	1.14	J	2.27	mg/kg	1
06971	Vanadium	7440-62-2	24.4	J	2.27	mg/kg	1
06972	Zinc	7440-66-6	2,480.	J	11.4	mg/kg	5
00111	Moisture Code 086	n.a.	12.0		0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.						
00394	pH Code 067	n.a.	6.5		0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.						

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4541910

OU4-SS-03-COMP4(12-18) Soil Sample

RAL DePue Site
Collected:06/06/2005

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:16
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
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03412 SDG#: DPU04-13*

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	10.9	1.17	mg/kg	1
00111	Moisture Code 086	n.a.	14.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.2	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/15/2005 17:03	Donna R Sackett	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/13/2005 17:27	Scott W Freisher	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/14/2005 03:25	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 6010B	1	06/14/2005 20:00	Annamaria Stipkovits	1

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Chain of Custody

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(315) 446-9120

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

acct# 11594 Group# 947016 Sample# 4541898-910

PROJ. NO.	PROJECT NAME	COC Number
85534	RAL DePue Site	5

SAMPLERS: (Signature)

SAMPLE ID	DATE	TIME	MATRIX	COMP.	GRAB	# Containers	Requested Analyses 1	2	3	4	5	6	7	HOLD	Remarks
OU4-SS-03-COMP1(0-1)	6/2/2005	0:00	SO			1	X	X							6/6
OU4-SS-03-COMP1(1-6)	6/2/2005	0:00	SO			1	X	X							ARSENIC, CADMIUM
OU4-SS-03-COMP1(6-12)	6/2/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-03-COMP2(0-1)	6/2/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-03-COMP2(1-6)	6/2/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-03-COMP2(6-12)	6/2/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-03-COMP2(12-18)	6/2/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-03-COMP3(0-1)	6/2/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-03-COMP3(1-6)	6/2/2005	0:00	SO			1	X	X							
OU4-SS-03-COMP3(6-12)	6/2/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-03-COMP3(12-18)	6/2/2005	0:00	SO			1	X	X							ARSENIC ONLY
OU4-SS-03-COMP4(0-1)	6/2/2005	0:00	SO			1	X	X							

Requested Analyses	Special Instructions/ Comments:	☒ Special QA/QC Instructions
1. Metals		
2. pH		
3.		
4.		
5.		
6.		
7.		

Laboratory Information and Receipt

Lab Name: Lancaster Laboratories
Shipping Tracking #
Specify Turnaround Requirements:
☒ Cooler packed with ice
☒ Cooler custody seal intact
Sample Receipt: intact
Condition/Cooler Temp: over 10.5°

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
	6/6/05	1500					
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
					6-10-05	0815	Kathy Birkey

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(315) 446-9120

CHAIN OF CUSTODY & LABORATORY ANALYSIS REQUEST FORM

Lab Work Order #

acct#11594 Group#947016 Sample#4541898-910

PROJ. NO.	PROJECT NAME	COC Number
85534	RAL DePue Site	5

SAMPLERS: (Signature)

SAMPLE ID	DATE	TIME	MATRIX	COMP.	GRAB	# Containers	Requested Analyses 1	2	3	4	5	6	7	HOLD	Remarks
OU4-SS-03-COMP4(12-18)	6/2/2005	0:00	SO			1	X	X							Inorganic ONLY 6/16

Requested Analyses
1. Metals
2. pH
3.
4.
5.
6.
7.

Special Instructions/ Comments:

☒ Special QA/QC Instructions

Laboratory Information and Receipt

Lab Name: Lancaster Laboratories

Shipping Tracking #

Specify Turnaround Requirements:

☒ Cooler packed with ice

☒ Cooler custody seal intact

Sample Receipt: intact

Condition/Cooler Temp: over 10.5°

Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
[signature]	6-8-05	1500	[signature]	[signature]			
Relinquished by: (Signature) (1)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
			[signature]	[signature]			[signature]
Relinquished by: (Signature) (2) (3)	DATE	TIME	Received by: (Signature)	Relinquished by: (Signature)	DATE	TIME	Received by: (Signature)
			[signature]		6-10-05	0855	Kathy Brinkley

DATA REVIEW FOR

DEPUE REMOVAL ACTION LIMIT (RAL) ASSESSMENT
DEPUE, ILLINOIS

SDG# DPU05

METALS ANALYSES

Analyses performed by:

Lancaster Laboratories, Inc.
Lancaster, Pennsylvania

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York
Summary

The following is an assessment of the data package for SDG# DPU05 for sampling from the RAL DePue Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis					
				VOA	SVOC	PCB	MET	PEST	MISC
RB053105-1	4541911	Water	5/31/2005				X		
RB053105-2	4541912	Water	5/31/2005				X		
RB060105-1	4541913	Water	6/1/2005				X		
RB060105-2	4541914	Water	6/1/2005				X		
RB060205-1	4541915	Water	6/2/2005				X		
RB060205-2	4541916	Water	6/2/2005				X		
RB060305-1	4542525	Water	6/3/2005				X		
RB060305-2	4542526	Water	6/3/2005				X		
RB060605-1	4542527	Water	6/6/2005				X		
RB060605-2	4542528	Water	6/6/2005				X		
RB060705-1	4542529	Water	6/7/2005				X		
RB060705-2	4542530	Water	6/7/2005				X		
RB060805-1	4544611	Water	6/8/2005				X		
RB060805-2	4544612	Water	6/8/2005				X		
RB060905-1	4544613	Water	6/9/2005				X		
RB060905-2	4544614	Water	6/9/2005				X		
RB061005-1	4544615	Water	6/10/2005				X		
RB061005-2	4544616	Water	6/10/2005				X		
RB061305-1	4544617	Water	6/13/2005				X		
RB061305-2	4544618	Water	6/13/2005				X		

METALS ANALYSES

Introduction

Analyses were performed according to USEPA 6000/7000. Data were reviewed in accordance with USEPA National Functional Guidelines of February 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

E The reported value is estimated due to the presence of interference.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

Validation qualifiers:

J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for metals analyses is 180 days and for mercury is 28 days from sample receipt. Samples are required to be preserved at 4°C.

All samples were analyzed within the specified holding times.

Note: Sample temperatures were greater than the required preservation temperature of 4°C for samples collected on 5/31/05 through 6/7/05.

2. Blank Contamination

Quality assurance blanks, i.e., method or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

All associated samples with this SDG were rinse blanks: therefore none of the data were qualified due to any method blank contamination.

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All required analytes evaluated by the guidelines exhibited CDRL recoveries within the control limit with the exception of manganese and selenium. The CRDL standard of these analytes exhibited recoveries less than the control limit. No sample locations were associated with these CRDL standards; therefore, none of the data were qualified due to this deviation.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix spike

No matrix spikes were performed within this SDG.

4.2 Laboratory Duplicate

No laboratory duplicates were performed within this SDG.

5. Field Duplicate

No field duplicates were performed within this SDG.

6. Laboratory Control Sample (LCS)

LCS recoveries were within control limits.

7. Serial Dilution

No serial dilutions were performed within this SDG.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES		NO		NA
Data Completeness and Deliverables					
Is there a narrative or cover letter present?	X				
Are the sample numbers included in the narrative?	X				
Are the sample chain-of-custodies present?	X				
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	X				
Is the package paginated?	X				
Are the forms and copies legible?	X				

Form I to IX					
Are all the Form I through Form IX labeled with:					
Laboratory name?	X				
Sample No.?	X				
SDG No.?	X				
Correct units?	X				
Matrix?	X				

Raw Data					
Is the digestion log for flame AA/ICP present?	X				
Is the digestion log for furnace AA present?					X
Is the distillation log for mercury present?					X
Is the distillation log for cyanides present?					X
Are pH values listed?					
pH for metals analyses <2 (waters)?			X		
pH for cyanide analyses >12 (waters)?					X
Percent solids calculation present for soils/sediments?	X				
Are preparation dates present on sample preparation logs/bench sheets?	X				
Are the measurement read out records present for:					
ICP	X				
Flame AA					X
Furnace AA					X
Mercury	X				
Cyanides					X
Is the data legible?	X				
Is the data properly labeled?	X				
Holding Times					

Inorganic Data Validation Checklist

	YES		NO		NA
Were mercury analyses performed within 28 days?	X				
Were cyanide distillations performed within 14 days?					X
Were other metal analysis performed within 6 months?	X				

Form I (Final Data)					
Are all forms complete?	X				
Are correct units indicated on Form I's?	X				
Are soil sample results for each parameter corrected for percent solids?	X				
Are all "less than IDL" values properly coded with "U"?	X				
Are the correct concentration qualifiers on Form 1's?	X				
Is a physical description of samples given on Form I's?	X				

Calibration					
Is a record of at least 2 point calibration present for ICP analysis?	X				
Is a record of 5 point calibration present for Hg analysis?	X				
Is a record of 4 point calibration present for:					
Flame AA?					X
Furnace AA?					X
Cyanides?					X
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?					X
Is correlation coefficient less than .995 for:					
Mercury Analysis?			X		
Cyanide Analysis?					X
Atomic Absorption Analysis?					X

Form II A (Initial and Continuing Calibration Verification)					
Present and complete for all analytes?	X				
Are all calibration standards (initial and continuing) within control limits for:					
Metals (90-110%)?	X				
Hg (80-120%)?	X				
Cyanides (85-115%)?					X
Was continuing calibration performed every 10 samples or every 2 hours?	X				
Was the ICV for cyanides distilled?					X

Form II B (CRDL Standards for AA and ICP)					
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	X				
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?					X

Inorganic Data Validation Checklist

	YES		NO		NA
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?	X				X
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	X				X
Are CRA and CRI standards within control limits for metals (60-120%)?			X		
Is mid-range standard within control limits for cyanide (80-120%)					X

Form III (Initial and Continuing Calibration Blanks)					
Present and complete?	X				
Was an initial calibration blank analyzed?	X				
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X				
Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?	X				
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?	X				

Form III (Preparation Blank)					
Was one prep. blank analyzed for:					
each Sample Delivery Group SDG)?	X				
each batch of digested samples?	X				
each matrix type?	X				
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?	X				
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X				
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X		
Is concentration of prep. blank below the negative CRDL?			X		

Form IV (ICP Interference Check Sample)					
Present and complete?	X				
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X				
Are all ICS results inside the control limits (±20%)?	X				
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?					X

Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation					
Present and complete for:					
each SDG?			X		
each matrix type?			X		
Was field blank used for spiked sample?			X		
Are all recoveries for analytes with sample concentrations less than four times the spike					X

Inorganic Data Validation Checklist

	YES		NO		NA
concentration within control limits (75-125)?					
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?					X
Aqueous					
Are any spike recoveries:					
less than 30%?					X
between 30-74%?					X
between 126-150%?					X
greater then 150%?					X
Soil/Sediment					
Are any spike recoveries:					
less than 10%?					X
between 10-74%?					X
between 126-200%?					X
greater than 200%?					X
Form VI (Lab Duplicates)					
Present and complete for:					
each SDG?			X		
each matrix type?			X		
Was field blank used for duplicate analysis?			X		
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?					X
If no, are all results outside the control limits flagged with an * on Form I's and VI?					X
Aqueous					
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?					X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?					X
Soil/Sediment					
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) >35 %?					X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?					X

Field Duplicates					
Were field duplicates analyzed?			X		
Aqueous					
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?					X
					X

Inorganic Data Validation Checklist

	YES		NO		NA
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?					
Soil/Sediment					
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?					X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?					X

Form VII (Laboratory Control Sample)					
Was one LCS prepared and analyzed for:					
each SDG?	X				
each batch samples digested/distilled?	X				
Aqueous LCS					
Is any LCS recovery:					
less than 50%?			X		
between 50% and 79%?			X		
between 121% and 150%?			X		
greater than 150%?			X		
Solid LCS					
Is LCS "Found" value higher than the control limits?					X
Is LCS "Found" lower than the control limits?					X

Form IX (ICP Serial Dilution)					
Was Serial Dilution analysis performed for:					
each SDG?			X		
each matrix type?			X		
Was field blank(s) used for Serial Dilution Analysis?			X		
Are results outside control limits flagged with an "E"" on Form I's and Form IX when the initial concentration on Form IX is equal to 50 times IDL or greater.			X		
Are any required % difference values:					
> 10%?					X
≥100%?					X

Furnace Atomic Absorption (AA) QC Analysis					
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?					X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?					X
Were dilutions analyzed for samples with analytical spike recovery less than 40%?					X

Inorganic Data Validation Checklist

	YES		NO		NA
Is analytical spike recovery outside the control limits (85-115%) for any sample?					X

Form VIII (Method of Standard Addition Results)					
Present?					X
If no, is any Form I result coded with "S" or "+"?					X
Was MSA required for any sample but not performed?					X
Is the coefficient of correlation for MSA less than 0.995 for any sample?					X
Is the coefficient of correlation for MSA less than 0.990 for any sample?					X
Was proper quantitation procedure followed?					X

Dissolved/Total for Inorganic/Total Analytes					
Were any analyses performed for dissolved as well as total analytes on the same sample.					X
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)					X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?					X
Field Blank					
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?					X
If no, was field blank value already rejected due to other QC criteria?					X

Form X, XI, XII (Verification of Instrumental Parameters)					
Is verification report present for :					
Instrument Detection Limits (quarterly)?	X				
ICP Interelement Correlation Factors (annually)?	X				
ICP Linear Ranges (quarterly)?	X				
Is IDL greater than CRDL for any analyte?			X		
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.					X
Was any sample result higher than the linear range of ICP.			X		
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X		
If yes for any of the above, was the sample diluted to obtain the result on Form I?					X

Percent Solids					
Are the percent solids in soil/sediment(s):					
< 50%?					X
< 10%?					X

Corrected Sample Analysis Data Sheets

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4541912

RB053105-2 Grab Water Sample
RAL DePue Site

Collected:05/31/2005 07:00 by MF

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:19
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

R5312 SDG#: DPU05-02RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/14/2005 08:18	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/16/2005 23:39	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/16/2005 23:39	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 22:58	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 22:58	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/15/2005 06:44	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	06/15/2005 06:44	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 06:44	Joanne M Gates	1

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4541913

RB060105-1 Grab Water Sample
RAL DePue Site

Collected:06/01/2005 07:00 by MF

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:19
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

R6011 SDG#: DPU05-03RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/14/2005 08:19	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/16/2005 23:44	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/16/2005 23:44	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 23:03	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 23:03	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/15/2005 06:49	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	06/15/2005 06:49	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 06:49	Joanne M Gates	1

0015

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4541914

RB060105-2 Grab Water Sample
RAL DePue Site

Collected:06/01/2005 07:00 by MF

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:19
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

R6012 SDG#: DPU05-04RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/14/2005 08:20	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/16/2005 23:49	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/16/2005 23:49	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 23:09	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 23:09	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/15/2005 06:53	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	06/15/2005 06:53	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 06:53	Joanne M Gates	1

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Lancaster Laboratories Sample No. WW 4541915

RB060205-1 Grab Water Sample
RAL DePue Site

Collected:06/02/2005 07:00 by MF

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:19
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

R6021 SDG#: DPU05-05RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/14/2005 08:24	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/16/2005 23:53	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/16/2005 23:53	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 23:14	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 23:14	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/15/2005 06:58	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	06/15/2005 06:58	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 06:58	Joanne M Gates	1

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4541916

RB060205-2 Grab Water Sample
RAL DePue Site

Collected:06/02/2005 07:00 by MF

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:19
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

R6022 SDG#: DPU05-06RB*

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/14/2005 08:25	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/16/2005 23:58	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/16/2005 23:58	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 23:19	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 23:19	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 23:19	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/15/2005 07:03	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 07:03	Joanne M Gates	1

0021

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Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4542525

RB060305-1 Grab Water Sample
RAL DePue Site

Collected:06/03/2005 07:00 by AB

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 14:23
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

RB631 SDG#: DPU05-07RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	0.412 J	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/16/2005 08:51	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/17/2005 20:40	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/17/2005 20:40	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 20:40	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 20:40	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 20:40	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/17/2005 20:40	John P Hook	1
07022	Thallium	SW-846 6010B	1	06/17/2005 20:40	John P Hook	1

8825

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4542526

RB060305-2 Grab Water Sample
RAL DePue Site

Collected:06/03/2005 07:00 by AB

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 14:23
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

RB632 SDG#: DPU05-08RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	0.0438 J	0.500	mg/l	1
01767	Sodium	7440-23-5	0.422 J	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/16/2005 08:53	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1
07022	Thallium	SW-846 6010B	1	06/17/2005 20:45	John P Hook	1

0027

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4542527

RB060605-1 Grab Water Sample
RAL DePue Site

Collected:06/06/2005 07:00 by AB

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 14:23
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

RB661 SDG#: DPU05-09RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	0.412 J	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/16/2005 08:54	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/17/2005 20:49	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/17/2005 20:49	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 20:49	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 20:49	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 20:49	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/17/2005 20:49	John P Hook	1
07022	Thallium	SW-846 6010B	1	06/17/2005 20:49	John P Hook	1

8829

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4542528

RB060605-2 Grab Water Sample
RAL DePue Site

Collected:06/06/2005 07:00 by AB

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 14:23
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

RB662 SDG#: DPU05-10RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	1.82	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	0.00049 J	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	0.0252	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	0.0028 J	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	0.0448	0.0100	mg/l	1
07061	Nickel	7440-02-0	0.0116	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	0.0024	0.0020	mg/l	1
07072	Zinc	7440-66-6	0.0056 J	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/16/2005 08:55	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/17/2005 20:54	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/17/2005 20:54	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 20:54	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 20:54	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 20:54	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/17/2005 20:54	John P Hook	1
07022	Thallium	SW-846 6010B	1	06/17/2005 20:54	John P Hook	1

0031

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4542529

RB060705-1 Grab Water Sample
RAL DePue Site

Collected:06/07/2005 07:00 by AB

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 14:24
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

RB671 SDG#: DPU05-11RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	0.0053 J	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/16/2005 08:57	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1
07022	Thallium	SW-846 6010B	1	06/17/2005 20:59	John P Hook	1

0033

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4542530

RB060705-2 Grab Water Sample
RAL DePue Site

Collected:06/07/2005 07:00 by AB

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 14:24
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

RB672 SDG#: DPU05-12RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	0.0067 J	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/16/2005 08:58	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
01754	Iron	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
01767	Sodium	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1
07022	Thallium	SW-846 6010B	1	06/17/2005 21:04	John P Hook	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4544611

RB060805-1 Grab Water Sample

RAL DePue Site
Collected:06/08/2005 07:00 by AB

Account Number: 11594

Submitted: 06/16/2005 09:00
Reported: 06/30/2005 at 14:24
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

68RB1 SDG#: DPU05-13RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/20/2005 08:31	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
01754	Iron	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	06/22/2005 12:28	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1
07022	Thallium	SW-846 6010B	1	06/21/2005 14:25	Eric L Eby	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4544612

RB060805-2 Grab Water Sample

RAL DePue Site
Collected:06/08/2005 07:00 by AB

Account Number: 11594

Submitted: 06/16/2005 09:00
Reported: 06/30/2005 at 14:24
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

68RB2 SDG#: DPU05-14RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	0.0066 J	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/20/2005 08:32	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	1
01754	Iron	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby	1
07022	Thallium	SW-846 6010B	1	06/21/2005 14:29	Eric L Eby 8841	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4544613

RB060905-1 Grab Water Sample

RAL DePue Site
Collected:06/09/2005 07:00 by AB

Account Number: 11594

Submitted: 06/16/2005 09:00
Reported: 06/30/2005 at 14:24
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

69RB1 SDG#: DPU05-15RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/20/2005 08:34	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
01754	Iron	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1
07022	Thallium	SW-846 6010B	1	06/21/2005 14:33	Eric L Eby	1

8843

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4544614

RB060905-2 Grab Water Sample

RAL DePue Site
Collected:06/09/2005 07:00 by AB

Account Number: 11594

Submitted: 06/16/2005 09:00
Reported: 06/30/2005 at 14:24
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

69RB2 SDG#: DPU05-16RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	0.00096 J	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/20/2005 08:35	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
01754	Iron	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby	1
07022	Thallium	SW-846 6010B	1	06/21/2005 14:37	Eric L Eby 0845	1

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4544615

RB061005-1 Grab Water Sample

RAL DePue Site
Collected:06/10/2005 07:00 by AB

Account Number: 11594

Submitted: 06/16/2005 09:00
Reported: 06/30/2005 at 14:24
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

610R1 SDG#: DPU05-17RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/20/2005 08:36	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01750	Calcium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01754	Iron	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01757	Magnesium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01762	Potassium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
01767	Sodium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1
07022	Thallium	SW-846 6010B	1	06/21/2005 14:41	Eric L Eby	1

0047

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. WW 4541911

RB053105-1 Grab Water Sample
RAL DePue Site

Collected:05/31/2005 07:00 by MF

Account Number: 11594

Submitted: 06/10/2005 08:55
Reported: 06/30/2005 at 15:18
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

R5311 SDG#: DPU05-01RB

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Units	Dilution Factor
00259	Mercury	7439-97-6	N.D.	0.00020	mg/l	1
01743	Aluminum	7429-90-5	N.D.	0.200	mg/l	1
01750	Calcium	7440-70-2	N.D.	0.200	mg/l	1
01754	Iron	7439-89-6	N.D.	0.100	mg/l	1
01757	Magnesium	7439-95-4	N.D.	0.100	mg/l	1
01762	Potassium	7440-09-7	N.D.	0.500	mg/l	1
01767	Sodium	7440-23-5	N.D.	0.600	mg/l	1
07022	Thallium	7440-28-0	N.D.	0.0100	mg/l	1
07035	Arsenic	7440-38-2	N.D.	0.0100	mg/l	1
07036	Selenium	7782-49-2	N.D.	0.0100	mg/l	1
07044	Antimony	7440-36-0	N.D.	0.0600	mg/l	1
07046	Barium	7440-39-3	N.D.	0.100	mg/l	1
07047	Beryllium	7440-41-7	N.D.	0.0020	mg/l	1
07049	Cadmium	7440-43-9	N.D.	0.0015	mg/l	1
07051	Chromium	7440-47-3	N.D.	0.0048	mg/l	1
07052	Cobalt	7440-48-4	N.D.	0.0500	mg/l	1
07053	Copper	7440-50-8	N.D.	0.0250	mg/l	1
07055	Lead	7439-92-1	N.D.	0.0100	mg/l	1
07058	Manganese	7439-96-5	N.D.	0.0100	mg/l	1
07061	Nickel	7440-02-0	N.D.	0.0058	mg/l	1
07066	Silver	7440-22-4	N.D.	0.0020	mg/l	1
07071	Vanadium	7440-62-2	N.D.	0.0020	mg/l	1
07072	Zinc	7440-66-6	N.D.	0.0250	mg/l	1

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
00259	Mercury	SW-846 6010B	1	06/14/2005 08:17	Damary Valentin	1
01743	Aluminum	SW-846 6010B	1	06/16/2005 23:34	John P Hook	1
01750	Calcium	SW-846 6010B	1	06/16/2005 23:34	John P Hook	1
01754	Iron	SW-846 6010B	1	06/16/2005 23:34	John P Hook	1
01757	Magnesium	SW-846 6010B	1	06/17/2005 22:53	John P Hook	1
01762	Potassium	SW-846 6010B	1	06/15/2005 06:39	Joanne M Gates	1
01767	Sodium	SW-846 6010B	1	06/15/2005 06:39	Joanne M Gates	1
07022	Thallium	SW-846 6010B	1	06/15/2005 06:39	Joanne M Gates	1

MEMBER ACIL
Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Chain of Custody

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

Acct. # 11594 For Lancaster Laboratories use only Group# 947017 Sample # 454191I-16

COC # 0089710

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: BBL/EM Acct. #:
Project Name/#: DEPUE, IL PWSID #:
Project Manager: NANCY GEISER P.O.#:
Sampler: MIKE FLYNN Quote #:
Name of state where samples were collected: IL

For Lab Use Only
FSC:
SCR #:

(2)		(3)	(4)	(5) TAL METALS	(6) Remarks
RB053105-1	5.31.05	0700	1	X	
RB053105-2	5.31.05		1	X	
RB060105-1	6.1.05		1	X	
RB060105-2	6.1.05		1	X	
RB060205-1	6.2.05		1	X	
RB060205-2	6.2.05	↓	1	X	

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)
SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time
	6.8.05	1520			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Kathy Binkley	Date 6-10-05	Time 0855

(9)

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 11594 Group# 947126 Sample # 4542525-30

COC # 0089709

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: BBL/EM Acct. #:
Project Name/#: 855.38.002 PWSID #:
Project Manager: MANLY GERSKE P.O.#:
Sampler: ANN BAIRD Quote #:
Name of state where samples were collected: IL

(4) (5) For Lab Use Only
FSC:
SCR #:
(6)

(2)			(3)	TAL METALS	Remarks
RB060305-1	6.3.05	0700	1	X	
RB060305-2	6.3.05	0700	1	X	
RB060605-1	6.6.05	0700	1	X	
RB060605-2	6.6.05	0700	1	X	
RB060705-1	6.7.05	0700	1	X	
RB060705-2	6.7.05	0700	1	X	

(7) **Turnaround Time Requested** (TAT) (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)
QC Summary Type VI (Raw Data)
Type I (Tier I) GLP
Type II (Tier II) Other
Type III (NJ Red. Del.)
Type IV (CLP)
SDG Complete? Yes No
Site-specific QC required? Yes No
(If yes, indicate QC sample and submit triplicate volume.)
Internal Chain of Custody required? Yes No

Relinquished by:	Date	Time	Received by:	Date	Time (9)
	6.7.05	0700			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
			Ross Zok	6/13/05	0852

Analysis Request / Environmental Services Chain of Custody

Lancaster Laboratories
Where quality is a science.

For Lancaster Laboratories use only
Acct. # 11594 Group# 947647 Sample # 4544611-18

COC # 0089724

Please print. Instructions on reverse side correspond with circled numbers.

(1)
Client: BBL/EM Acct. #:
Project Name/#: DePue IL PWSID #:
Project Manager: NANCY GENSKY P.O.#:
Sampler: ADAM BAIRD Quote #:
Name of state where samples were collected: IL

(2) (3) (4) (5) (6)

Sample	Date	Time						TAL METALS								Remarks
RB060805-1	6-8-05	0700	X			X	1	X								
RB060805-2	6-8-05	0700	X			X	1	X								
RB060905-1	6-9-05	0700	X			X	1	X								
RB060905-2	6-9-05	0700	X			X	1	X								
RB061005-1	6-10-05	0700	X			X	1	X								
RB061005-2	6-10-05	0700	X			X	1	X								
RB061305-1	6-13-05	0700	X			X	1	X								
RB061305-2	6-13-05	0700	X			X	1	X								

For Lab Use Only
FSC:
SCR #:

(7) **Turnaround Time Requested (TAT)** (please circle): Normal Rush
(Rush TAT is subject to Lancaster Laboratories approval and surcharge.)
Date results are needed:
Rush results requested by (please circle): Phone Fax E-mail
Phone #: Fax #:
E-mail address:

(8) **Data Package Options** (please circle if required)

		SDG Complete?
QC Summary	Type VI (Raw Data)	Yes No
Type I (Tier I)	GLP	Site-specific QC required? Yes No
Type II (Tier II)	Other	(If yes, indicate QC sample and submit triplicate volume.)
Type III (NJ Red. Del.)		Internal Chain of Custody required? Yes No
Type IV (CLP)		

(9)

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	6/15	1700			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by: Kathy Brinkley	6-16-05	0800

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300
Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

2102 Rev. 10/27/02

DATA REVIEW FOR

DEPUE REMOVAL ACTION LIMIT (RAL) ASSESSMENT
DEPUE, ILLINOIS

SDG# DPU06

METALS ANALYSES

Analyses performed by:

Lancaster Laboratories, Inc.
Lancaster, Pennsylvania

Review performed by:

BBL
BLASLAND, BOUCK & LEE, INC.
engineers & scientists

Blasland, Bouck & Lee, Inc.
Syracuse, New York
Summary

The following is an assessment of the data package for SDG#DPU06 for sampling from the RAL DePue Site. Included with this assessment are the data review check sheets used in the review of the package and corrected sample results. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Date	Analysis					
				VOA	SVOC	PCB	MET	PEST	MISC
OU4-SS-04-COMP1(0-1)	4542494	Soil	6/3/2005				X		
OU4-SS-04-COMP1(1-6)	4542495	Soil	6/3/2005				X		
OU4-SS-04-COMP1(6-12)	4542496	Soil	6/3/2005				X[1]		
OU4-SS-04-COMP2(0-1)	4542497	Soil	6/3/2005				X		
OU4-SS-04-COMP2(1-6)	4542498	Soil	6/3/2005				X		
OU4-SS-04-COMP2(12-18)	4542499	Soil	6/3/2005				X		
OU4-SS-04-COMP3(0-1)	4542500	Soil	6/3/2005				X		
OU4-SS-04-COMP3(1-6)	4542501	Soil	6/3/2005				X		
OU4-SS-04-COMP4(0-1)	4542502	Soil	6/2/2005				X		
OU4-SS-04-COMP4(1-6)	4542503	Soil	6/2/2005				X		
OU4-SS-04-COMP5(1-6)	4542504	Soil	6/2/2005				X		
OU4-SS-04-COMP5(12-18)	4542505	Soil	6/2/2005				X		
OU4-SS-04-COMP6(0-1)	4542506	Soil	6/3/2005				X		
OU4-SS-04-COMP6(1-6)	4542507	Soil	6/3/2005				X		

1 MS/MSD analysis performed on sample.

METALS ANALYSES

Introduction

Analyses were performed according to USEPA 6000/7000. Data were reviewed in accordance with USEPA National Functional Guidelines of February 1994.

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and had already been subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with National Functional Guidelines:

Concentration (C) qualifiers:

U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.

B The reported value was obtained from a reading less than the contract required detection limit (CRDL) but greater than or equal to the instrument detection limit (IDL).

Quantitation (Q) qualifiers:

E The reported value is estimated due to the presence of interference.

N Spiked sample recovery not within control limits.

* Duplicate analysis not within control limits.

Validation qualifiers:

J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.

UJ The analyte was not detected above the reported sample detection limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.

R The sample results are rejected.

Two facts should be noted by all data users. First, the "R" flag means that the associated value is unusable. In other words, due to significant QC problems, the analysis is invalid and provides no information as to whether the compound is present or not. "R" values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Data Assessment

1. Holding Time

The specified holding times for metals analyses is 180 days and for mercury is 28 days from sample receipt. Samples are required to be preserved at 4°C.

All samples were analyzed within the specified holding times.

Note: Sample temperatures were greater than the required preservation temperature of 4°C.

2. Blank Contamination

Quality assurance blanks, i.e., method or rinse blanks, are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks (including initial and continuing calibration blanks and preparation blanks) measure laboratory contamination. Rinse blanks measure contamination of samples during field operations.

Barium, cadmium, calcium, chromium, cooper, iron, magnesium, manganese, potassium and zinc were detected above the method detection limit in the method blank and/or the calibration blank. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified.

Potassium was detected above the method detection limit in the associated rinse blank (RB060305-2) collected on 6/3/05 and associated with SDG#DPU05. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified

Sodium was detected above the method detection limit in the associated rinse blanks (RB060305-1 and RB060305-2) collected on 6/3/05 and associated with SDG#DPU05. All associated sample results were greater than the blank action limit; therefore, none of the data were qualified

3. Calibration

Satisfactory instrument calibration is established to insure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of acceptable performance at the beginning of an experimental sequence. The continuing calibration verifies that the instrument continuing performance is satisfactory.

3.1 Initial Calibration

The correct number and type of standards were analyzed and all initial calibration verification standard recoveries were within control limits.

3.2 Continuing Calibration

All continuing calibration verification standard recoveries were within control limits.

3.3 CRDL Standard

All required analytes evaluated by the guidelines exhibited CDRL recoveries within the control limit with the exception of manganese and zinc. The CRDL standard of these analytes exhibited recoveries greater than the control limit. All associated sample locations exhibited concentrations greater than two times the reporting limit; therefore, none of the data were qualified due to this deviation.

3.4 ICP Interference Control Sample

All ICS recoveries were acceptable.

4. Matrix Spike/Matrix Spike Duplicate (MS/MSD)/Laboratory Duplicate

Matrix spike and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

4.1 Matrix Spike / Matrix Spike Duplicate (MS/MSD)

The MS/MSD associated with barium, cadmium, chromium, cooper, lead, potassium and vanadium exhibited recoveries greater than control limits. All associated sample results for these analytes were qualified as estimated.

4.2 Laboratory Duplicate

The laboratory duplicate results associated with arsenic, cadmium, cooper, iron, lead, manganese, vanadium and zinc exhibited a percent difference greater than control limits. All associated sample results for these analytes were qualified as estimated.

5. Field Duplicate

No field duplicates associated within this SDG.

6. Laboratory Control Sample (LCS)

LCS recoveries were within control limits.

7. Serial Dilution

Although the serial dilution of cobalt was outside of control limits, the serial dilution was performed on sample location OU4-SS-04-COMP1(6-12) whose concentration of cobalt was less than the 50 times the instrument detection limit; therefore, none of the associated sample results were qualified.

The serial dilution result of potassium was greater than control limits. All associated sample results for potassium were qualified as estimated.

8. Furnace QC

No furnace analyses were performed on the samples.

9. Method of Standard Additions (MSA)

No samples were analyzed following the method of standard additions.

10. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist

Inorganic Data Validation Checklist

	YES		NO		NA
Data Completeness and Deliverables					
Is there a narrative or cover letter present?	X				
Are the sample numbers included in the narrative?	X				
Are the sample chain-of-custodies present?	X				
Do the chain-of-custodies indicate any problems with sample receipt or sample condition?	X				
Is the package paginated?	X				
Are the forms and copies legible?	X				

Form I to IX					
Are all the Form I through Form IX labeled with:					
Laboratory name?	X				
Sample No.?	X				
SDG No.?	X				
Correct units?	X				
Matrix?	X				

Raw Data					
Is the digestion log for flame AA/ICP present?	X				
Is the digestion log for furnace AA present?					X
Is the distillation log for mercury present?					X
Is the distillation log for cyanides present?					X
Are pH values listed?					
pH for metals analyses <2 (waters)?					X
pH for cyanide analyses >12 (waters)?					X
Percent solids calculation present for soils/sediments?	X				
Are preparation dates present on sample preparation logs/bench sheets?	X				
Are the measurement read out records present for:					
ICP	X				
Flame AA					X
Furnace AA					X
Mercury	X				
Cyanides					X
Is the data legible?	X				
Is the data properly labeled?	X				
Holding Times					
	X				

Inorganic Data Validation Checklist

	YES		NO		NA
Were mercury analyses performed within 28 days?					
Were cyanide distillations performed within 14 days?					X
Were other metal analysis performed within 6 months?	X				

Form I (Final Data)					
Are all forms complete?	X				
Are correct units indicated on Form I's?	X				
Are soil sample results for each parameter corrected for percent solids?	X				
Are all "less than IDL" values properly coded with "U"?	X				
Are the correct concentration qualifiers on Form 1's?	X				
Is a physical description of samples given on Form I's?	X				

Calibration					
Is a record of at least 2 point calibration present for ICP analysis?	X				
Is a record of 5 point calibration present for Hg analysis?	X				
Is a record of 4 point calibration present for:					
Flame AA?					X
Furnace AA?					X
Cyanides?					X
Is one calibration standard at the CRDL level for all AA (except Hg) and cyanides analyses?					X
Is correlation coefficient less than .995 for:					
Mercury Analysis?			X		
Cyanide Analysis?					X
Atomic Absorption Analysis?					X

Form II A (Initial and Continuing Calibration Verification)					
Present and complete for all analytes?	X				
Are all calibration standards (initial and continuing) within control limits for:					
Metals (90-110%)?	X				
Hg (80-120%)?	X				
Cyanides (85-115%)?					X
Was continuing calibration performed every 10 samples or every 2 hours?	X				
Was the ICV for cyanides distilled?					X

Form II B (CRDL Standards for AA and ICP)					
Was a CRDL standard (CRA) analyzed after initial calibration for all AA metals (except Hg)?	X				
Was a mid-range calibration verification standard distilled and analyzed for cyanide analysis?					X

Inorganic Data Validation Checklist

	YES		NO		NA
Was a 2xCRDL (or 2xIDL when IDL>CRDL) standard (CRI) analyzed for each ICP run?	X				
Was CRI analyzed after the ICV/ICB and before the final CCV/CCB, and twice every eight hours for each ICP run?	X				
Are CRA and CRI standards within control limits for metals (70-130%)?			X		
Is mid-range standard within control limits for cyanide (80-120%)					X

Form III (Initial and Continuing Calibration Blanks)					
Present and complete?	X				
Was an initial calibration blank analyzed?	X				
Was a continuing calibration blank analyzed after every 10 samples or every 2 hours (which ever is more frequent)?	X				
Are all calibration blanks (when IDL<CRDL) less than or equal to the Contract Required Detection Limits (CRDLs)?			X		
Are all calibration blanks less than two times Instrument Detection Limit (when IDL>CRDL)?					X

Form III (Preparation Blank)					
Was one prep. blank analyzed for:					
each Sample Delivery Group SDG)?	X				
each batch of digested samples?	X				
each matrix type?	X				
Is concentration of prep. blank value less than the CRDL (when IDL≤CRDL)?			X		
If no, is the concentration of the sample with the least concentrated analyte less than 10 times the prep. blank?	X				
Is concentration of prep. blank value less than two times IDL (when IDL>CRDL)?			X		
Is concentration of prep. blank below the negative CRDL?			X		

Form IV (ICP Interference Check Sample)					
Present and complete?	X				
Was ICS analyzed at beginning and end of run (or at least twice every 8 hours)?	X				
Are all ICS results inside the control limits (±20%)?	X				
If no, is concentration of Al, Ca, Fe, or Mg lower than the respective concentration in ICS?					X

Form V A (Spiked Sample Recovery - Pre-Digestion/Pre-Distillation					
Present and complete for:					
each SDG?	X				
each matrix type?	X				
Was field blank used for spiked sample?			X		
Are all recoveries for analytes with sample concentrations less than four times the spike					

Inorganic Data Validation Checklist

	YES		NO		NA
concentration within control limits (75-125)?			X		
Are results outside the control limits (75-125%) flagged with "N" on Form I's and Form VA?					X
Aqueous					
Are any spike recoveries:					
less than 30%?					X
between 30-74%?					X
between 126-150%?					X
greater then 150%?					X
Soil/Sediment					
Are any spike recoveries:					
less than 10%?			X		
between 10-74%?			X		
between 126-200%?	X				
greater than 200%?	X				
Form VI (Lab Duplicates)					
Present and complete for:					
each SDG?	X				
each matrix type?	X				
Was field blank used for duplicate analysis?			X		
Are all values within control limits (RPD 20% or difference $\leq \pm$CRDL)?			X		
If no, are all results outside the control limits flagged with an * on Form I's and VI?					X
Aqueous					
Is any RPD greater than 20% where sample and duplicate are both greater than or equal to 5 times CRDL?					X
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5 times CRDL?					X
Soil/Sediment					
Is any RPD (where sample and duplicate are both greater than or equal to 5 times CRDL) >35 %?			X		
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5xCRDL) > 2xCRDL?			X		

Field Duplicates					
Were field duplicates analyzed?			X		
Aqueous					
is any RPD greater than 50% where sample and duplicate are both greater than or equal to 5xCRDL?					X

Inorganic Data Validation Checklist

	YES		NO		NA
Is any difference between sample and duplicate greater than CRDL where sample and/or duplicate is less than 5xCRDL?					X
Soil/Sediment					
Is any RPD (where sample and duplicate are both greater than 5 times CRDL) > 100%?					X
Is any difference between sample and duplicate (where sample and/or duplicate is less than 5x CRDL) >2xCRDL?					X

Form VII (Laboratory Control Sample)					
Was one LCS prepared and analyzed for:					
each SDG?	X				
each batch samples digested/distilled?	X				
Aqueous LCS					
Is any LCS recovery:					X
less than 50%?					X
between 50% and 79%?					X
between 121% and 150%?					X
greater than 150%?					X
Solid LCS					
Is LCS "Found" value higher than the control limits?			X		
Is LCS "Found" lower than the control limits?			X		

Form IX (ICP Serial Dilution)					
Was Serial Dilution analysis performed for:					
each SDG?	X				
each matrix type?	X				
Was field blank(s) used for Serial Dilution Analysis?			X		
Are results outside control limits flagged with an "E"" on Form I's and Form IX when the initial concentration on Form IX is equal to 50 times IDL or greater.			X		
Are any required % difference values:					
> 10%?	X				
≥100%?			X		

Furnace Atomic Absorption (AA) QC Analysis					
Are duplicate injections present in furnace raw data (except during full Method of Standard Addition) for each sample analyzed by GFAA?					X
Do the duplicate injection readings agree within 20% Relative Standard Deviation (RSD) or coefficient of Variation (CV) for concentrations greater than CRDL?					X
Were dilutions analyzed for samples with analytical spike recovery less than 40%?					

Inorganic Data Validation Checklist

	YES		NO		NA
					X
Is analytical spike recovery outside the control limits (85-115%) for any sample?					X

Form VIII (Method of Standard Addition Results)					
Present?					X
If no, is any Form I result coded with "S" or "+"?					X
Was MSA required for any sample but not performed?					X
Is the coefficient of correlation for MSA less than 0.995 for any sample?					X
Is the coefficient of correlation for MSA less than 0.990 for any sample?					X
Was proper quantitation procedure followed?					X

Dissolved/Total for Inorganic/Total Analytes					
Were any analyses performed for dissolved as well as total analytes on the same sample.					X
Is the concentration of any dissolved analyte greater than its total concentration by more than 10%? (if >CRDL)					X
Is the concentration of any dissolved analyte greater than its total concentration by more than 50%?					X
Field Blank					
Is the field blank concentration less than CRDL (or 2xIDL when IDL>CRDL) for all analytes?					X
If no, was field blank value already rejected due to other QC criteria?					X

Form X, XI, XII (Verification of Instrumental Parameters)					
Is verification report present for :					
Instrument Detection Limits (quarterly)?	X				
ICP Interelement Correlation Factors (annually)?	X				
ICP Linear Ranges (quarterly)?	X				
Is IDL greater than CRDL for any analyte?			X		
If yes, are the concentrations of the samples analyzed on the instrument whose IDL exceeds CRDL, greater than 5xIDL.					X
Was any sample result higher than the linear range of ICP.			X		
Was any sample result higher than the highest calibration standard for non-ICP parameters?			X		
If yes for any of the above, was the sample diluted to obtain the result on Form I?					X

Percent Solids					
Are the percent solids in soil/sediment(s):					
< 50%?			X		
< 10%?			X		

Corrected Sample Analysis Data Sheets

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542494

OU4-SS-04-COMP1(0-1) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:56
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

SS411 SDG#: DPU06-01

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	9.78 J	1.11	mg/kg	1
00111	Moisture Code 086	n.a.	10.0	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.5	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:15	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

0009

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542495

OU4-SS-04-COMP1(1-6) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:56
Discard: 07/31/2005

Blasland, Bouck & Lee
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Syracuse NY 13214-0066

SS412 SDG#: DPU06-02

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	14.2	1.07	mg/kg	1
00111	Moisture Code 086	n.a.	6.5	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.2	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:20	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

8810

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542496

OU4-SS-04-COMP1(6-12) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:56
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
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SS413 SDG#: DPU06-03

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0860 J	0.111	mg/kg	1
01643	Aluminum	7429-90-5	11,000.	22.1	mg/kg	1
01650	Calcium	7440-70-2	2,930.	33.2	mg/kg	1
01654	Iron	7439-89-6	14,900.	22.1	mg/kg	1
01657	Magnesium	7439-95-4	2,110.	27.7	mg/kg	1
01662	Potassium	7440-09-7	1,630.	55.4	mg/kg	1
01667	Sodium	7440-23-5	72.2 J	111.	mg/kg	1
06925	Thallium	7440-28-0	1.70	1.11	mg/kg	1
06935	Arsenic	7440-38-2	7.96	1.11	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.11	mg/kg	1
06944	Antimony	7440-36-0	N.D.	6.64	mg/kg	1
06946	Barium	7440-39-3	442.	11.1	mg/kg	1
06947	Beryllium	7440-41-7	0.839	0.332	mg/kg	1
06949	Cadmium	7440-43-9	7.82	2.21	mg/kg	1
06951	Chromium	7440-47-3	18.1	4.43	mg/kg	1
06952	Cobalt	7440-48-4	9.18	5.54	mg/kg	1
06953	Copper	7440-50-8	64.0	4.43	mg/kg	1
06955	Lead	7439-92-1	129.	11.1	mg/kg	1
06958	Manganese	7439-96-5	1,760.	2.21	mg/kg	1
06961	Nickel	7440-02-0	23.3	5.54	mg/kg	1
06966	Silver	7440-22-4	0.286 J	2.21	mg/kg	1
06971	Vanadium	7440-62-2	29.9	2.21	mg/kg	1
06972	Zinc	7440-66-6	1,560.	11.1	mg/kg	1
00111	Moisture Code 086	n.a.	9.7	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.2	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Lancaster Laboratories Sample No. SW 4542497

OU4-SS-04-COMP2(0-1) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:56
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

SS421 SDG#: DPU06-04

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0569 J	0.109	mg/kg	1
01643	Aluminum	7429-90-5	11,100.	21.9	mg/kg	1
01650	Calcium	7440-70-2	31,500.	32.8	mg/kg	1
01654	Iron	7439-89-6	15,000. J	21.9	mg/kg	1
01657	Magnesium	7439-95-4	16,800.	27.3	mg/kg	1
01662	Potassium	7440-09-7	2,170. J	54.6	mg/kg	1
01667	Sodium	7440-23-5	80.5 J	109.	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.09	mg/kg	1
06935	Arsenic	7440-38-2	7.89 J	1.09	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.09	mg/kg	1
06944	Antimony	7440-36-0	N.D.	6.56	mg/kg	1
06946	Barium	7440-39-3	472. J	10.9	mg/kg	1
06947	Beryllium	7440-41-7	0.544	0.328	mg/kg	1
06949	Cadmium	7440-43-9	19.8 J	2.19	mg/kg	1
06951	Chromium	7440-47-3	17.7 J	4.37	mg/kg	1
06952	Cobalt	7440-48-4	8.46	5.46	mg/kg	1
06953	Copper	7440-50-8	38.8 J	4.37	mg/kg	1
06955	Lead	7439-92-1	143. J	10.9	mg/kg	1
06958	Manganese	7439-96-5	815. J	2.19	mg/kg	1
06961	Nickel	7440-02-0	15.4	5.46	mg/kg	1
06966	Silver	7440-22-4	0.560 J	2.19	mg/kg	1
06971	Vanadium	7440-62-2	29.3 J	2.19	mg/kg	1
06972	Zinc	7440-66-6	1,460. J	10.9	mg/kg	1
00111	Moisture Code 086	n.a.	8.5	0.50	%	1

"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.

00394	pH Code 067	n.a.	6.9	0.010	Std. Units	1

The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	0813	Dilution Factor

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542498

OU4-SS-04-COMP2(1-6) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:56
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

SS422 SDG#: DPU06-05

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	8.87 J	1.03	mg/kg	1
00111	Moisture Code 086	n.a.	3.0	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.0	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:39	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

0215

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542499

OU4-SS-04-COMP2(12-18) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:56
Discard: 07/31/2005

Blasland, Bouck & Lee
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SS423 SDG#: DPU06-06

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	8.51 J	1.12	mg/kg	1
00111	Moisture Code 086	n.a.	10.7	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.0	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:44	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

0016

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Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542500

OU4-SS-04-COMP3(0-1) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:57
Discard: 07/31/2005

Blasland, Bouck & Lee
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SS431 SDG#: DPU06-07

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	10.3	1.06	mg/kg	1
00111	Moisture Code 086	n.a.	5.9	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.9	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:48	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

0817

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542501

OU4-SS-04-COMP3(1-6) Soil Sample

RAL DePue Site
Collected:06/03/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:57
Discard: 07/31/2005

Blasland, Bouck & Lee
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SS432 SDG#: DPU06-08

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0465 J	0.105	mg/kg	1
01643	Aluminum	7429-90-5	12,300.	21.1	mg/kg	1
01650	Calcium	7440-70-2	5,030.	31.6	mg/kg	1
01654	Iron	7439-89-6	19,300.	21.1	mg/kg	1
01657	Magnesium	7439-95-4	2,470.	26.3	mg/kg	1
01662	Potassium	7440-09-7	1,710.	52.6	mg/kg	1
01667	Sodium	7440-23-5	66.4 J	105.	mg/kg	1
06925	Thallium	7440-28-0	N.D.	1.05	mg/kg	1
06935	Arsenic	7440-38-2	9.99	1.05	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.05	mg/kg	1
06944	Antimony	7440-36-0	N.D.	6.32	mg/kg	1
06946	Barium	7440-39-3	564.	10.5	mg/kg	1
06947	Beryllium	7440-41-7	0.787	0.316	mg/kg	1
06949	Cadmium	7440-43-9	26.9	2.11	mg/kg	1
06951	Chromium	7440-47-3	18.7	4.21	mg/kg	1
06952	Cobalt	7440-48-4	9.55	5.26	mg/kg	1
06953	Copper	7440-50-8	45.0	4.21	mg/kg	1
06955	Lead	7439-92-1	166.	10.5	mg/kg	1
06958	Manganese	7439-96-5	830.	2.11	mg/kg	1
06961	Nickel	7440-02-0	19.7	5.26	mg/kg	1
06966	Silver	7440-22-4	0.635 J	2.11	mg/kg	1
06971	Vanadium	7440-62-2	34.2	2.11	mg/kg	1
06972	Zinc	7440-66-6	2,520.	10.5	mg/kg	1
00111	Moisture Code 086	n.a.	5.0	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.7	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542502

OU4-SS-04-COMP4(0-1) Soil Sample

RAL DePue Site
Collected:06/02/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:57
Discard: 07/31/2005

Blasland, Bouck & Lee
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Syracuse NY 13214-0066

SS441 SDG#: DPU06-09

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	9.17 J	1.08	mg/kg	1
00111	Moisture Code 086	n.a.	7.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	6.6	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 11:58	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

8820

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542503

OU4-SS-04-COMP4(1-6) Soil Sample

RAL DePue Site
Collected:06/02/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:57
Discard: 07/31/2005

Blasland, Bouck & Lee
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SS442 SDG#: DPU06-10

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	8.31 J	1.05	mg/kg	1
00111	Moisture Code 086	n.a.	5.2	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.0	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 12:02	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

0021

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Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542504

OU4-SS-04-COMP5(1-6) Soil Sample

RAL DePue Site
Collected:06/02/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:57
Discard: 07/31/2005

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SS451 SDG#: DPU06-11

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
00159	Mercury	7439-97-6	0.0298 J	0.121	mg/kg	1
01643	Aluminum	7429-90-5	9,010.	24.1	mg/kg	1
01650	Calcium	7440-70-2	3,210.	36.2	mg/kg	1
01654	Iron	7439-89-6	12,400. J	24.1	mg/kg	1
01657	Magnesium	7439-95-4	1,710.	30.2	mg/kg	1
01662	Potassium	7440-09-7	2,510. J	60.3	mg/kg	1
01667	Sodium	7440-23-5	69.9 J	121.	mg/kg	1
06925	Thallium	7440-28-0	1.34	1.21	mg/kg	1
06935	Arsenic	7440-38-2	5.27 J	1.21	mg/kg	1
06936	Selenium	7782-49-2	N.D.	1.21	mg/kg	1
06944	Antimony	7440-36-0	N.D.	7.24	mg/kg	1
06946	Barium	7440-39-3	256. J	12.1	mg/kg	1
06947	Beryllium	7440-41-7	0.579	0.362	mg/kg	1
06949	Cadmium	7440-43-9	5.02 J	2.41	mg/kg	1
06951	Chromium	7440-47-3	15.5 J	4.83	mg/kg	1
06952	Cobalt	7440-48-4	8.39	6.03	mg/kg	1
06953	Copper	7440-50-8	17.4 J	4.83	mg/kg	1
06955	Lead	7439-92-1	39.4 J	12.1	mg/kg	1
06958	Manganese	7439-96-5	1,320. J	2.41	mg/kg	1
06961	Nickel	7440-02-0	19.0	6.03	mg/kg	1
06966	Silver	7440-22-4	N.D.	2.41	mg/kg	1
06971	Vanadium	7440-62-2	22.7 J	2.41	mg/kg	1
06972	Zinc	7440-66-6	680. J	12.1	mg/kg	1
00111	Moisture Code 086	n.a.	17.1	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.5	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor

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Lancaster Laboratories, Inc.
2425 New Holland Pike
PO Box 12425
Lancaster, PA 17605-2425
717-656-2300 Fax: 717-656-2681

Analysis Report

Lancaster Laboratories

Lancaster Laboratories Sample No. SW 4542505

OU4-SS-04-COMP5(12-18) Soil Sample

RAL DePue Site
Collected:06/02/2005

Account Number: 11594

Submitted: 06/13/2005 08:50
Reported: 06/30/2005 at 13:57
Discard: 07/31/2005

Blasland, Bouck & Lee
6723 Towpath Road, Box 66
Syracuse NY 13214-0066

SS452 SDG#: DPU06-12

CAT No.	Analysis Name	CAS Number	Dry Result	Dry Method Detection Limit	Units	Dilution Factor
06935	Arsenic	7440-38-2	9.26 J	1.14	mg/kg	1
00111	Moisture Code 086	n.a.	12.6	0.50	%	1
	"Moisture" represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported above is on an as-received basis.					
00394	pH Code 067	n.a.	7.5	0.010	Std. Units	1
	The pH was performed on a 1:1 slurry (25 gms. of sample and 25 ml. of deionized water) after being tumbled for 30 min.					

Laboratory Chronicle

CAT No.	Analysis Name	Method	Trial#	Analysis Date and Time	Analyst	Dilution Factor
06935	Arsenic	SW-846 6010B	1	06/18/2005 12:12	Damary Valentin	1
00111	Moisture Code 086	EPA 160.3 modified	1	06/15/2005 07:58	William C Schwebel	1
00394	pH Code 067	SW-846 9045C (modified)	1	06/15/2005 00:10	Daniel S Smith	1
05708	SW SW846 ICP Digest	SW-846 3050B	1	06/15/2005 07:00	Suzette L Lehman	1

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MEMBER ACIL
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